

SAFETY EVALUATION WORKSHEET

Safety Evaluation Number: SE-BNFL-5193-SRD-01-02-01

Revision No: 0

Safety Evaluation Title: Revision to SRD Safety Criteria for ERPP Topic

PART I: DESCRIPTION OF THE PROPOSED CHANGE, BACKGROUND, AND SCHEDULE

1. Describe the aspects of the issue being evaluated and its expected effects.

The issue is the modification of Safety Criteria in the 5.3 and 5.4 Series of Revision 2 of TWRS-P SRD. Specifically, this change modifies the current Safety Criteria of sections 5.3 and 5.4 to ensure the individual program elements described in SC 5.3-1 are adequately addressed. This change also identifies Implementing Standards for the Safety Criteria of sections 5.3 and 5.4 of the SRD.

2. Identify the parameters, programs, procedures and systems affected by the issue.

This change affects those portions of the environmental program dealing with radioactivity as identified in the SRD sections 5.3 and 5.4..

3. Identify the credible failure modes associated with the proposed issue.

This change addresses the identification of Safety Criteria. Failure modes are not affected by this change.

4. List the references to location of information used for the safety evaluation.

- *BNFL-5193-SRD-01, TWRS-P Project Safety Requirements Document, Volume II, Revision 2, Sections 5.3 and 5.4.*
- *DOE/RL-96-00004, Process for Establishing a Set of Radiological, Nuclear, and Process Safety Standards, and Requirements for TWRS Privatization*
- *BNFL #001198, D. J. Pisarcik to D. W. Edwards, Selection of Standards for the ERPP Topic.*

5. Describe the planned implementation schedule.

Revised Safety Criteria and Implementing Standards are to be submitted to the RU to provide for RU review and acceptance by 2/2/99 as required in Condition 2 of the RU's Acceptance of the SRD Revision 1A, 99- RU-0072 (PDC # 000840). The Safety Criteria are applicable throughout the TWRS-P Facility design, construction, and operation.

PART II: POTENTIAL IMPACT ON QUALITY ASSURANCE; RADIATION PROTECTION; SAFETY REQUIREMENTS DOCUMENT; TECHNICAL SAFETY REQUIREMENTS; REGULATORY COMMITMENTS; PROGRAM AND PROCEDURE EFFECTIVENESS; AND DESIGN BASIS

1. Does the proposed change affect the TWRS-P Quality Assurance Program?

NO, this proposed change to the SRD Safety Criteria in the 5.3 and 5.4 Series has no affect on the TWRS-P QA Program.

2. Does the proposed change affect the TWRS-P Radiation Protection Program?

NO, this proposed change is specific to safety criteria in the area of Environmental Radiation Protection Program. The RPP is specific to occupational radiation protection.

3. Does the proposed change involve the deletion or modification of a standard previously identified or established in the approved SRD?

YES.

4. Does the proposed change involve the modification of an approved Technical Safety Requirement?

NO, TSRs are not yet established for environmental radioactivity.

5. Does the proposed change result in a reduction in commitment currently described in the Authorization Basis?

NO, the proposed change in safety criteria text is equivalent to the current Safety Criteria.

6. Does the proposed change result in a reduction in the effectiveness of any program, procedure, or plan described in the Authorization Basis?

NO, the proposed change does not reduce the effectiveness of any program, procedure, or plan described in the Authorization Basis. This is because the revised criteria are equivalent to the current criteria. Adoption of the revised criteria ensures continued compliance with the top-level radiological, nuclear, and process safety standards and principles stated in DOE/RL-96-0006.

7. Does the proposed change result in an Unreviewed Safety Question?

N/A. This question applies after issuance of the Production Operations Authorization.

PART III: IMPACT ON THE ACCIDENTS EVALUATED AS THE DESIGN BASIS

N/A. This section applies after issuance of the Production Operations Authorization.

PART IV: POTENTIAL FOR CREATION OF A DIFFERENT TYPE OF UNANALYZED EVENT

N/A. This section applies after issuance of the Production Operations Authorization.

PART V: IMPACT ON THE MARGIN OF SAFETY

N/A. This section applies after issuance of the Production Operations Authorization.

Part VI: SAFETY EVALUATION CONCLUSION

Based on the evaluation in Part II, and as applicable, Parts III, IV, and V, the proposed change:

Quality Assurance Program

☒ Does not involve a change of the Quality Assurance Program and Implementation Plan

☐ Does involve a change of the Quality Assurance Program and Implementation Plan and requires an evaluation in accordance with Appendix 3 of this Code of Practice.

Radiation Protection Program

☒ Does not involve a change of the Radiation Protection Program.

☐ Does involve a change of the Radiation Protection Program and requires an evaluation in accordance with Appendix 4 of this Code of Practice.

Safety Requirements Document

☐ Does not involve the deletion or modification of a standard previously identified or established in the approved SRD.

☒ Does involve the deletion or modification of a standard previously identified or established in the approved SRD and requires the preparation and attachment of an Authorization Basis Amendment Request to this form.

Technical Safety Requirements

☒ Does not involve the modification of an approved Technical Safety Requirement.

☐ Does involve the modification of an approved Technical Safety Requirement and requires the preparation and attachment of an Authorization Basis Amendment Request to this form.

Regulatory Commitments

☒ Does not result in a reduction in commitment described in the Authorization Basis.

☐ Does result in the reduction in commitment described in the Authorization Basis and requires the preparation and attachment of an Authorization Basis Amendment Request to this form.

Program, Plan, and Procedure Effectiveness

☒ Does not result in a reduction in the effectiveness of any program, procedure, or plan described in the Authorization Basis.

☐ Does result in a reduction in the effectiveness of a program, procedure, or plan described in the Authorization Basis and requires the preparation and attachment of an Authorization Basis Amendment Request to this evaluation form.

Unreviewed Safety Question

☒ Does not constitute an Unreviewed Safety Question.

☐ Does constitute an Unreviewed Safety Question and requires the preparation and attachment of an Authorization Basis Amendment Request to this evaluation form.

Evaluator/Originator

Date

Reviewer

Date

Owner, Structure, System, Component, Program, Plan,
or Procedure

Date

Manager, Engineering or Operations

Date

Manager, Safety and Regulatory Programs

Date

Manager, Quality Assurance*

Date

Chairman, Project Safety Committee*

Date

TWRS-P Project Manager*

Date

* Only those safety evaluations with a determination that prior Regulatory Unit approval of the proposed change is required.